

CLAIMS

2 We claim:

1. A composition comprising isolated SVII virus.

4 2. The composition of claim 1, wherein said isolated SVII virus comprises a polynucleotide sequence shown in FIG. 1.

6 3. An isolated polynucleotide selected from the group consisting of;
an isolated polynucleotide selectively hybridizable with a nucleotide sequence
8 shown in FIG. 1, *Seq ID #*

10 a complement of an isolated polynucleotide selectively hybridizable with a nucleotide sequence shown in FIG. 1,

an isolated polynucleotide encoding a SVII protein or fragment of a SVII protein,

12 and

14 a complement of an isolated polynucleotide encoding a SVII protein or a fragment of a SVII protein.

16 4. The isolated polynucleotide of claim 3, wherein said isolated polynucleotide is an antisense polynucleotide.

5. A composition comprising:

18 an isolated SVII protein or fragment thereof.

6. A vaccine composition comprising:

20 an isolated SVII protein or fragment thereof; and

a pharmaceutically acceptable excipient.

22 7. The vaccine composition of claim 6, further comprising an adjuvant.

2 8. An expression vector comprising an isolated polynucleotide encoding a SVII
protein or a fragment of a SVII protein.

4 9. An expression vector comprising an isolated polynucleotide, wherein
transcription of said isolated polynucleotide results in the production of an SVII antisense
polynucleotide.

6 10. An isolated polyclonal antisera that specifically binds to a SVII virus or a
protein thereof.

8 11. A monoclonal antibody which binds to a SVII virus or a protein thereof.

10 12. A method for detecting SVII virus, comprising:
contacting a sample with an antibody which specifically binds to SVII virus or a
protein thereof; and

12 detecting complexes of said antibody and SVII virus or protein thereof.

14 13. A method for detecting SVII virus, comprising:
contacting a sample with a probe polynucleotide which selectively hybridizes to a
SVII polynucleotide; and

16 detecting hybridization of said probe with a SVII polynucleotide.